

Student Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period #: \_\_\_\_\_

Unit 1: Quiz 3

***Physics Vocabulary & Physical Quantities of Interest***

1. Identify the following quantities as either a **Vector** or **Scalar**? **Explain**
  - a. The current in the Potomac River
  
  
  
  
  
  
  
  
  
  
  - b. The cost of a homecoming ticket.
  
  
  
  
  
  
  
  
  
  
  - c. The initial flight path for a plane travelling from Dulles International Airport to Chicago O'Hara.
  
  
  
  
  
  
  
  
  
  
  - d. The number of students at Park View High School
  
  
  
  
  
  
  
  
  
  
2. Identify the following quantities as either a **Vector** or **Scalar**? **Explain**
  - a. The velocity of an automobile.
  
  
  
  
  
  
  
  
  
  
  - b. The speed of an automobile.
  
  
  
  
  
  
  
  
  
  
  - c. How long it takes to do a physics lab.
  
  
  
  
  
  
  
  
  
  
  - d. The force required to push your friend off a boat dock into the water.
  
  
  
  
  
  
  
  
  
  
  - e. The acceleration of your friend once you push them off the dock.

3. Which of the following is a physical quantity that has both magnitude and direction?
  - a. Vector
  - b. Scalar
  - c. Resultant
  - d. Reference frame
  
4. Identify the following quantities as scalar or vector: the mass of an object, the number of leaves on a tree, wind velocity.
  - a. vector, scalar, scalar
  - b. scalar, scalar, vector
  - c. scalar, vector, scalar
  - d. vector, scalar, vector
  
5. Identify the following quantities as scalar or vector: the speed of a snail, the time it takes to run a mile, the acceleration experienced when in free-fall
  - a. vector, scalar, scalar
  - b. scalar, scalar, vector
  - c. vector, scalar, vector
  - d. scalar, vector, vector
  
6. \_\_\_\_\_ is an example of a scalar quantity
  - a. Velocity
  - b. Force
  - c. Speed
  - d. Acceleration
  
7. \_\_\_\_\_ is an example of a vector quantity
  - a. Time
  - b. Velocity
  - c. Volume
  - d. Density